

SEQUENCE LISTING

<110> Genentech, Inc.

<120> BMCA POLYPEPTIDES AND USES THEREOF

<130> 11669.237WOU1

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<141> 2004-08-04

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<160> 33

<170> PatentIn version 3.1

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Cys	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa
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Xaa Cys

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Cys	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa
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Xaa Cys

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1				5					10					15	

Cys	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa
			20				25					30		

Xaa Cys

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1				5					10					15	

Cys	Xaa	Asp	Tyr	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa
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Xaa Cys

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Cys	Gln	Leu	Arg	Cys	Ser	Ser	Asn	Thr	Pro	Pro	Leu	Thr	Cys	Gln	Arg
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Cys	Asp	Leu	Arg	Cys	Ser	Ser	Asn	Thr	Pro	Pro	Leu	Thr	Cys	Gln	Arg
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Tyr Cys

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Cys	Asp	Leu	Tyr	Cys	Ser	Ser	Asn	Thr	Pro	Pro	Leu	Thr	Cys	Gln	Arg
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Tyr Cys

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Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Val His Ala Cys Lys Pro
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Tyr Cys

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Xaa Cys

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Xaa Cys

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Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
 20 25 30

Xaa Cys

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Tyr Cys

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Cys	Gln	Leu	Arg	Cys	Ser	Ser	Asn	Thr	Pro	Pro	Leu	Thr	Cys	Gln	Arg
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Tyr Cys

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Tyr Cys

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Cys Asp Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
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Tyr Cys

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Cys Gln Leu Tyr Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
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Tyr Cys

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Cys Asp Leu Tyr Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
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Tyr Cys

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Cys Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Xaa Xaa

19

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<220>
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Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
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Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
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Val Lys Gly Thr
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<210> 22
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Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg Tyr
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Cys Asn Ala Ser Val Thr
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<210> 23
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<212> PRT
<213> Homo sapiens

<400> 23

Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu
 1 5 10 15
 Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
 20 25 30
 Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu
 35 40 45
 Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val
 50 55 60
 Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
 65 70 75 80
 Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly
 85 90 95
 Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu
 100 105 110
 Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn
 115 120 125
 Ser Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Val Thr Gln
 130 135 140
 Asp Cys Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys
 145 150 155 160
 Gly Ser Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser
 165 170 175
 Ala Leu Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr
 180 185 190
 Phe Phe Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met
 195 200 205
 Gly His Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu
 210 215 220
 Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu
 225 230 235 240

Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly
 245 250 255

Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu
 260 265 270

Asp Gly Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
 275 280 285

<210> 24
 <211> 309
 <212> PRT
 <213> Mus musculus

<400> 24

Met Asp Glu Ser Ala Lys Thr Leu Pro Pro Pro Cys Leu Cys Phe Cys
 1 5 10 15

Ser Glu Lys Gly Glu Asp Met Lys Val Gly Tyr Asp Pro Ile Thr Pro
 20 25 30

Gln Lys Glu Glu Gly Ala Trp Phe Gly Ile Cys Arg Asp Gly Arg Leu
 35 40 45

Leu Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Ser Ser Phe Thr Ala
 50 55 60

Met Ser Leu Tyr Gln Leu Ala Ala Leu Gln Ala Asp Leu Met Asn Leu
 65 70 75 80

Arg Met Glu Leu Gln Ser Tyr Arg Gly Ser Ala Thr Pro Ala Ala Ala
 85 90 95

Gly Ala Pro Glu Leu Thr Ala Gly Val Lys Leu Leu Thr Pro Ala Ala
 100 105 110

Pro Arg Pro His Asn Ser Ser Arg Gly His Arg Asn Arg Arg Ala Phe
 115 120 125

Gln Gly Pro Glu Glu Thr Glu Gln Asp Val Asp Leu Ser Ala Pro Pro
 130 135 140

Ala Pro Cys Leu Pro Gly Cys Arg His Ser Gln His Asp Asp Asn Gly
 145 150 155 160

Met Asn Leu Arg Asn Ile Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp
165 170 175

Ser Asp Thr Pro Thr Ile Arg Lys Gly Thr Tyr Thr Phe Val Pro Trp
180 185 190

Leu Leu Ser Phe Lys Arg Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys
195 200 205

Ile Val Val Arg Gln Thr Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu
210 215 220

Tyr Thr Asp Pro Ile Phe Ala Met Gly His Val Ile Gln Arg Lys Lys
225 230 235 240

Val His Val Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys
245 250 255

Ile Gln Asn Met Pro Lys Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala
260 265 270

Gly Ile Ala Arg Leu Glu Glu Gly Asp Glu Ile Gln Leu Ala Ile Pro
275 280 285

Arg Glu Asn Ala Gln Ile Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly
290 295 300

Ala Leu Lys Leu Leu
305

<210> 25
<211> 250
<212> PRT
<213> Homo sapiens

<400> 25

Met Pro Ala Ser Ser Pro Phe Leu Leu Ala Pro Lys Gly Pro Pro Gly
1 5 10 15

Asn Met Gly Gly Pro Val Arg Glu Pro Ala Leu Ser Val Ala Leu Trp
20 25 30

Leu Ser Trp Gly Ala Ala Leu Gly Ala Val Ala Cys Ala Met Ala Leu
35 40 45

Leu Thr Gln Gln Thr Glu Leu Gln Ser Leu Arg Arg Glu Val Ser Arg
23

50

55

60

Leu Gln Gly Thr Gly Gly Pro Ser Gln Asn Gly Glu Gly Tyr Pro Trp
 65 70 75 80

Gln Ser Leu Pro Glu Gln Ser Ser Asp Ala Leu Glu Ala Trp Glu Asn
 85 90 95

Gly Glu Arg Ser Arg Lys Arg Arg Ala Val Leu Thr Gln Lys Gln Lys
 100 105 110

Lys Gln His Ser Val Leu His Leu Val Pro Ile Asn Ala Thr Ser Lys
 115 120 125

Asp Asp Ser Asp Val Thr Glu Val Met Trp Gln Pro Ala Leu Arg Arg
 130 135 140

Gly Arg Gly Leu Gln Ala Gln Gly Tyr Gly Val Arg Ile Gln Asp Ala
 145 150 155 160

Gly Val Tyr Leu Leu Tyr Ser Gln Val Leu Phe Gln Asp Val Thr Phe
 165 170 175

Thr Met Gly Gln Val Val Ser Arg Glu Gly Gln Gly Arg Gln Glu Thr
 180 185 190

Leu Phe Arg Cys Ile Arg Ser Met Pro Ser His Pro Asp Arg Ala Tyr
 195 200 205

Asn Ser Cys Tyr Ser Ala Gly Val Phe His Leu His Gln Gly Asp Ile
 210 215 220

Leu Ser Val Ile Ile Pro Arg Ala Arg Ala Lys Leu Asn Leu Ser Pro
 225 230 235 240

His Gly Thr Phe Leu Gly Phe Val Lys Leu
 245 250

<210> 26

<211> 240

<212> PRT

<213> Mus musculus

<400> 26

Met Pro Ala Ser Ser Pro Gly His Met Gly Gly Ser Val Arg Glu Pro
 1 5 10 15

Ala Leu Ser Val Ala Leu Trp Leu Ser Trp Gly Ala Val Leu Gly Ala
20 25 30

Val Thr Cys Ala Val Ala Leu Leu Ile Gln Gln Thr Glu Leu Gln Ser
35 40 45

Leu Arg Arg Glu Val Ser Arg Leu Gln Arg Ser Gly Gly Pro Ser Gln
50 55 60

Lys Gln Gly Glu Arg Pro Trp Gln Ser Leu Trp Glu Gln Ser Pro Asp
65 70 75 80

Val Leu Glu Ala Trp Lys Asp Gly Ala Lys Ser Arg Arg Arg Arg Ala
85 90 95

Val Leu Thr Gln Lys His Lys Lys Lys His Ser Val Leu His Leu Val
100 105 110

Pro Val Asn Ile Thr Ser Lys Asp Ser Asp Val Thr Glu Val Met Trp
115 120 125

Gln Pro Val Leu Arg Arg Gly Arg Gly Leu Glu Ala Gln Gly Asp Ile
130 135 140

Val Arg Val Trp Asp Thr Gly Ile Tyr Leu Leu Tyr Ser Gln Val Leu
145 150 155 160

Phe His Asp Val Thr Phe Thr Met Gly Gln Val Val Ser Arg Glu Gly
165 170 175

Gln Gly Arg Arg Glu Thr Leu Phe Arg Cys Ile Arg Ser Met Pro Ser
180 185 190

Asp Pro Asp Arg Ala Tyr Asn Ser Cys Tyr Ser Ala Gly Val Phe His
195 200 205

Leu His Gln Gly Asp Ile Ile Thr Val Lys Ile Pro Arg Ala Asn Ala
210 215 220

Lys Leu Ser Leu Ser Pro His Gly Thr Phe Leu Gly Phe Val Lys Leu
225 230 235 240

<210> 27

<211> 11

<212> PRT
 <213> Artificial Sequence

<220>
 <223> MBP-Ac1-11 (a synthetic NH2-terminal peptide of Myelin Basic Protein)

<400> 27

Ala	Ser	Gln	Lys	Arg	Pro	Ser	Gln	Arg	Ser	Lys
1				5					10	

<210> 28
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula I

<220>
 <221> MISC_FEATURE
 <222> (2)..(5)
 <223> Xaa is any amino acid except cysteine

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> Xaa is any amino acid except cysteine

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa is any amino acid except cysteine

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> Xaa is any amino acid residue except Ala and cysteine

<220>
 <221> MISC_FEATURE
 <222> (12)..(13)
 <223> Xaa is any amino acid except cysteine

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa is any amino acid except cysteine

<220>
 <221> MISC_FEATURE
 <222> (18)..(19)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC_FEATURE

<222> (22)..(29)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC_FEATURE

<222> (31)..(33)

<223> Xaa is any amino acid except cysteine

<400> 28

Cys	Xaa	Xaa	Xaa	Xaa	Tyr	Xaa	Asp	Xaa	Leu	Xaa	Xaa	Xaa	Cys	Lys	Xaa
1				5					10				15		

Cys	Xaa	Xaa	Arg	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa
			20					25				30		

Xaa Cys

<210> 29

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Z-domain of Staphylococcal protein A

<400> 29

Ala	Gln	His	Asp	Glu	Ala	Val	Asp	Asn	Lys	Phe	Asn	Lys	Glu	Gln	Gln
1				5				10					15		

Asn	Ala	Phe	Tyr	Glu	Ile	Leu	His	Leu	Pro	Asn	Leu	Asn	Glu	Glu	Gln
			20					25				30			

Arg	Asn	Ala	Phe	Ile	Gln	Ser	Leu	Lys	Asp	Asp	Pro	Ser	Gln	Ser	Ala
		35					40				45				

Asn	Leu	Leu	Ala	Glu	Ala	Lys	Lys	Leu	Asn	Asp	Ala	Gln	Ala	Pro	Lys
	50					55					60				

<210> 30

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> MiniBR3

<400> 30

Thr Pro Cys Val Pro Ala Glu Cys Phe Asp Leu Leu Val Arg His Cys
 1 5 10 15

Val Ala Cys Gly Leu Leu Arg Thr Pro Arg
 20 25

<210> 31

<211> 296

<212> PRT

<213> Artificial Sequence

<220>

<223> BCMA-(I22K)-Fc fusion

<400> 31

Met Ser Ala Leu Leu Ile Leu Ala Leu Val Gly Ala Ala Val Ala Ser
 1 5 10 15

Thr Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His
 20 25 30

Ala Cys Lys Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu
 35 40 45

Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly
 50 55 60

Val Thr Asp Lys Ala Ala His Tyr Thr Leu Cys Pro Pro Cys Pro Ala
 65 70 75 80

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 85 90 95

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 100 105 110

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 115 120 125

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 130 135 140

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln

145 150 155 160
 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 165 170 175
 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 180 185 190
 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 195 200 205
 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 210 215 220
 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 225 230 235 240
 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 245 250 255
 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 260 265 270
 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 275 280 285
 Ser Leu Ser Leu Ser Pro Gly Lys
 290 295

<210> 32
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> peptide epitope

<400> 32

Met Ala Asp Pro Asn Arg Phe Arg Gly Lys Asp Leu Gly Gly
 1 5 10

<210> 33
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula II

<220>
<221> MISC_FEATURE
<222> (2)..(5)
<223> Xaa is any amino acid except cysteine; and provided that the
Formula II does not comprise the sequence CSQNEYFDSLHACIPCQLR
CSSNTPPLTCQRYC

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa is selected from the group consisting of Tyr, Ala, Asp, Ser
and Phe

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid except cysteine; and provided that the
Formula II does not comprise the sequence CSQNEYFDSLHACIPCQLR
CSSNTPPLTCQRYC

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid except cysteine; and provided that the
Formula II does not comprise the sequence CSQNEYFDSLHACIPCQLR
CSSNTPPLTCQRYC

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is any amino acid residue except Ala

<220>
<221> MISC_FEATURE
<222> (12)..(13)
<223> Xaa is any amino acid except cysteine; and provided that the
Formula II does not comprise the sequence CSQNEYFDSLHACIPCQLR
CSSNTPPLTCQRYC

<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> Xaa is any amino acid residue except Ala or Lys

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is any amino acid except cysteine; and provided that the
Formula II does not comprise the sequence CSQNEYFDSLHACIPCQLR
CSSNTPPLTCQRYC

<220>

<221> MISC_FEATURE

<222> (18)..(18)

<223> Xaa is Asp

<220>

<221> MISC_FEATURE

<222> (19)..(19)

<223> Xaa is any amino acid except cysteine; and provided that the
Formula II does not comprise the sequence CSQNEYFDSLHLHACIPCQLR
CSSNTPPLTCQRYC

<220>

<221> MISC_FEATURE

<222> (20)..(20)

<223> Xaa is Tyr

<220>

<221> MISC_FEATURE

<222> (22)..(29)

<223> Xaa is any amino acid except cysteine; and provided that the
Formula II does not comprise the sequence CSQNEYFDSLHLHACIPCQLR
CSSNTPPLTCQRYC

<220>

<221> MISC_FEATURE

<222> (31)..(33)

<223> Xaa is any amino acid except cysteine; and provided that the
Formula II does not comprise the sequence CSQNEYFDSLHLHACIPCQLR
CSSNTPPLTCQRYC

<400> 33

Cys Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Xaa Xaa
1 5 10 15

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
20 25 30

Xaa Cys